

**Basic Operating Permit  
Notification  
City of St. Louis Sources Only**

**Instructions**



**City of St. Louis  
Department of Health  
Division of Air Pollution Control  
1520 Market Street Room 4058  
St. Louis, Missouri 63103-2629  
Telephone: (314) 613-7300**

This document was originally developed by the Missouri Department of Natural Resources to provide assistance in completing Form MO 780-1871, Basic Operating Permit Notification for City of St. Louis Sources only.

# TABLE OF CONTENTS

|   |               |
|---|---------------|
| <b>INTRODUCTION .....</b>   | <b>3</b>      |
| <b>SECTION A - GENERAL APPLICATION INFORMATION.....</b>   | <b>5</b>      |
| SECTION A: GENERAL NOTIFICATION INFORMATION.....  | 5             |
| Section A-1: General Installation Information. ....   | 5             |
| Section A-2: Type of Basic Operating Permit Notification .....  | 6             |
| Basic State Applicability.....  | 6             |
| Potential to Emit, PTE.....   | 7             |
| Potential to Emit Guidance .....  | 7             |
| Treatment of Fugitive Emissions .....   | 8             |
| Missouri Deferral.....  | 8             |
| Specific Basic State Operating Permit Type. ....  | 9             |
| Section A-3: Installation Description .....   | 10            |
| Section A-4. Compliance Status with all applicable requirements.....  | 10            |
| Section A-5. Compliance Plan .....  | 10            |
| Section A-6. Certification of Compliance with All Applicable Requirements and the Applicant's<br>Certification Statement for Operating Permit Notification..... | 10            |
| <b>SECTION B - APPLICABLE REQUIREMENTS CHECKLIST .....</b>  | <b>11</b>     |
| APPLICABLE EMISSION POINT (AS LISTED IN EIQ) .....  | 13            |
| <b>SECTION C - COMMENT FORM.....</b>  | <b>13</b>     |
| APPENDIX A, COUNTY INFORMATION.....   | 14            |
| APPENDIX B, MAJOR GROUP STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES .....  | 15            |
| APPENDIX C, EMISSION LIMIT THRESHOLDS .....   | 17            |
| APPENDIX D, POTENTIAL APPLICABLE REQUIREMENTS SUMMARY .....   | 18            |
| Entire State of Missouri – Code of State Regulations -Chapter 6 .....   | 18            |
| Entire State of Missouri – New Source Performance Regulations – 10 CSR 10-6.070 and 40 CFR<br>Part 60 .....   | 19            |
| Entire State of Missouri – Maximum Achievable Control Technology Standards – 10 CSR 10-6.075<br>and 40 CFR Part 63.....   | 22            |
| Entire State of Missouri – Emission Standards for Hazardous Air Pollutants – 10 CSR 10-6.080 and<br>40 CFR Part 61.....   | 25            |
| St. Louis Metropolitan Area – Code of State Regulations -Chapter 5 .....  | 26            |
| City of St. Louis Local Ordinances.....   | 27            |
| State Enforceability versus Federal Enforceability .....  | 27            |
| APPENDIX E, HAZARDOUS AIR POLLUTANTS LIST .....   | <del>28</del> |
| GLOSSARY .....  | <del>32</del> |

Deleted

Deleted

## Introduction

Missouri's Operating Permits Program includes two types of operating permits; *Part 70* operating permits and *Basic State* operating permits. The *Part 70 Operating Permit* for "Major Sources," satisfies the requirements of Title V of the 1990 Clean Air Act Amendments as set forth by the United States Congress to supplement the Clean Air Act. The operating permit rule includes provisions for an *Intermediate Operating Permit* for "Major Sources" that choose to volunteer for self-imposed emission limitations so a *Part 70* permit is not required. Finally, the rule includes provisions for *Basic State Operating Permits* for sources that are not classified as "Major Sources." This rule is set forth at MISSOURI STATE RULE 10 Code of State Regulations (CSR) 10-6.065 Operating Permits.

These instructions include guidance to help the installation determine which classification (or type) of operating permit is required.

Sources that are required to obtain an operating permit under 10 CSR 10-6.065 must complete all or part of the accompanying application forms. All applicants must:

1. Submit duplicate copies of the application.
2. Submit \$100.00 application fee for all submittals, except off-permit changes and administrative amendments.
3. Provide all the necessary completed forms.
4. The responsible official signatures on Form A-1 must be original (no copies) and signed in ink.
5. When required, provide a completed Emissions Inventory Questionnaire (EIQ) for the previous calendar year.

Installations subject to the requirement to obtain a *Basic State Operating Permit* are required to file an initial permit application/notification within 30 days following commencement of operations at the installation. *Basic Operating Permits* are valid for five years from the date of receipt or acceptance, whichever is later. A permit renewal application/notification must be filed at least six months prior to the expiration date of an existing operating permit.

Operating permit amendments must be filed promptly any time when it is determined that the operating permit notification contains incorrect, incomplete, false, or misleading information. Typically, amendments are filed when the installation adds or modifies emissions sources, or when new regulations that affect the source are promulgated after the submittal of a permit notification.

Notifications are incomplete unless all information requested is supplied. Failure to supply any additional information requested by the permitting authority may result in the denial of the permit notification for Basic sources.

A copy of Title 10, Division 10 Missouri Air Laws and Regulations can be obtained by contacting the Secretary of State's Office at (573) 751-4936. A copy is also available at:  
<http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp>

Completed notifications must be mailed to the City of St. Louis Air Pollution Control Program (Do not fax notifications). For additional assistance or further questions, contact the City of St. Louis Air Pollution Control Program. Please see contact information on the following page.

1. Missouri Department of Natural Resources  
Air Pollution Control Program  
Operating Permit Unit  
P.O. Box 176  
Jefferson City, MO 65102-0176  
Telephone: (573) 751-4817  
Fax: (573) 751-2706

Environmental Assistance Office (formerly Technical Assistance Program)  
(800) 361-4827

2. Missouri Department of Natural Resources Regional Offices

*Southeast Regional Office*  
2155 North Westwood Blvd  
P.O. Box 1420  
Poplar Bluff, MO 63901-1420  
Telephone: (573) 840-9750  
Fax: (573) 840-9754

*Kansas City Regional Office*  
500 NE Colbern Road  
Lee's Summit, MO 64086-4710  
Telephone: (816) 622-7000  
Fax: (816) 622-7044

*Northeast Regional Office*  
1709 Prospect Drive  
Macon, MO 63552-2602  
Telephone: (660) 385-2129  
Fax: (660) 385-6398

*Southwest Regional Office*  
2040 W. Woodland  
Springfield, MO 65807-5912  
Telephone (417) 891-4300  
Fax: (417) 895-4399

*St. Louis Regional Office*  
7545 S. Lindbergh, Suite 210  
St. Louis, MO 63125  
Telephone: (314) 416-2960  
Fax: (314) 416-2970

3. Local agencies

***City of St. Louis:***  
**Air Pollution Control Program**  
**1520 Market Street Room 4058**  
**St. Louis, MO 63103-2629**  
**Telephone: (314) 613-7300**  
**Fax: (314) 613-7275**

*St. Louis County:*  
St. Louis County - Health  
Air Pollution Control Program  
111 South Meramec Avenue  
Clayton, MO 63105  
Telephone: (314) 615-8923  
Fax (314) 615-8951

*City of Springfield:*  
Air Pollution Control Authority  
227 East Chestnut Expressway  
Springfield, MO 65802  
Telephone: (417) 864-1000  
Fax: (417) 864-1499

*Kansas City:*  
Kansas City Health Department  
Air Quality Section  
2400 Troost  
3<sup>rd</sup> Floor  
Kansas City, MO 64108  
Telephone: (816) 513-6314  
Fax: (816) 513-6920

## Section A - General Application Information

These forms are to request the general plant information and other related information for the installation subject to this specific permit application.

### SECTION A: General Notification Information

#### Section A-1: General Installation Information.

Box 1 – Installation Name: Enter the official company name and/or plant designation for the installation that is submitting this Basic Operating Permit Notification. This name will usually be the same as on the mailing label. If your official company name has changed in the calendar year of record, please enter the new name in the box. This official installation name must be entered on every form submitted.

Box 2 – FIPS Number: Enter the official FIPS Number (3 digit code) which corresponds to the county name for the county in which the installation is located. Please refer to Appendix A, County Information, for a listing of Missouri counties and the respective FIPS Number. The FIPS number in combination with the Plant Number provides the identification/tracking information for the installation in the State/Federal databases.

Box 3 – Plant Number: Enter the official Plant Number which has been assigned to the installation by the respective State or Local Agencies. If you do not know your plant number, please leave blank.

Box 4 – Date Stamp: This field is for department/agency use only. This field will contain the date of receipt of the Basic OP Notification. DO NOT ENTER ANY INFORMATION.

Box 5 – Year Submitted – Enter the year the notification is being submitted.

Box 6 - Installation Telephone Number: Enter the installation telephone number for general information.

Box 7 - Installation Fax Number: Enter the installation fax number.

Box 8, 10 & 11– Installation Mailing Address, City & Zip Code: Enter the mailing address, city and zip code for the installation if the mailing address for the installation is different from the street location.

Box 9 – Primary SIC Code: Primary Standard Industrial Classification (SIC) Code. SIC is a designation system by the federal government. Enter the two-digit Major Group Standard Industrial Classification code as listed in Appendix B that corresponds to the primary economic activity of the installation. In most cases, all emissions units at an installation will directly or indirectly support a single economic activity as represented by a Major Group SIC code. It is possible for an installation to be engaged in more than one Major Group SIC code activity. In such a case, the primary Major Group should be entered in this field, and any secondary Major Groups can be explained in the installation description (Box 29).

**Example:** A cardboard manufacturer with a printing process will list Major Group 26 as its principal SIC and then show printing (SIC code 27) in the installation description box.

Box 12, 14 & 15 – Installation Street Address, City & Zip Code: Enter the street address, city and zip code for the installation. The street address is the physical location of the installation.

Box 13 – County Name: Enter the county name for the county in which the installation is located.

Box 16 & Box 18– Missouri Senatorial & Representative District Number: Enter the zip code for the installation under “Legislative Lookup” at <http://www.senate.mo.gov> If internet is not available, contact your county clerk or call the Environmental Assistance Office at (800) 361-4827.

Box 17 – [Installation](#) Contact Person – Enter the name of the individual who is familiar with the operations of the installation and who the installation would like to be contacted to answer any questions regarding information about the installation and/or notification.

Box 19 – Installation Contact Telephone Number – Enter the telephone number for the installation contact person if it is different from the installation telephone number in Box 6.

Box 20 – Installation Contact E-mail – Enter the e-mail address for the installation contact person.

Box 21 – Parent Company Name – Enter the parent company name (Headquarters/Corporate/ Parent Company) for the installation. This information is utilized for installations which have different installation names/addresses on check information to assist in applying the submitted money to the proper installation and for those installations that prefer environmental information to be sent to Headquarter or Corporate personnel.

Box 22, 23, 24 & 25 – Parent Company Mailing Address/City/State/Zip Code – Enter the parent company mailing address and zip code for the installation.

Box 26 – Parent Company Contact Person– If the installation would prefer the parent company to be contacted for environmental information/issues, then enter the parent company contact for the installation.

Box 27 – Parent Company Contact Telephone Number – If the installation has entered a parent company contact, enter the telephone number at which the contact may be reached.

Box 28 – Parent Company Contact E-mail – If the installation has entered a parent company contact, enter the e-mail address at which the contact may be reached.

**Please note: A copy of the notification stamped “Accepted” must be kept at the installation even if the contact is at the Headquarters/Corporate/Parent Company location.**

## **Section A-2: Type of Basic Operating Permit Notification**

### **Basic State Applicability**

A Basic State Operating Permit is required for the following sources.

1. Sources with existing potential emission greater than *de minimis* levels but less than major source thresholds. Refer to Appendix C, Emission Limit Thresholds, for a list of the *de minimis* levels;
2. Sources that have emission levels less than *de minimis* but with an incinerator (non solid waste incinerator), except for the incinerators used for the noncommercial disposal of dead animals and designed in accordance with University of Missouri Extension Service guidelines. An incinerator is defined as any article, machine, equipment, contrivance, structure or part thereof which is used to burn refuse or to process refuse material by burning other than open burning.
3. Sources subject to a New Source Performance Standard (NSPS) standard (section 111 of the Clean Air Act). These sources will be required to obtain Part 70 permits when the Administrator subjects the installations to the requirements by rule.
4. Sources subject to a National Emission Standard for Hazardous Air Pollutants (NESHAP) or other HAP requirement (section 112 of the Clean Air Act, or Maximum Achievable Control Technology). These sources will be required to obtain a Part 70 Permit when the Administrator subjects the installations to the requirements by rule. These sources are not required to obtain a Part 70 permit solely because they are subject to Section 112(r) of the Act.

In determining applicability of the operating permit program to the installation, only calculate the potential to emit for the possible “limiting pollutant,” the pollutant with the highest emissions from the installation with respect to Basic applicability thresholds. Be careful to note all the thresholds for all pollutants emitted by the installation. Hazardous air pollutants have relatively low annual emission thresholds, and can easily be overlooked when performing an initial assessment of an installation.

**Example:** The installation is tasked with determining if a Part 70 permit is required. The primary pollutant emitted is particulate matter; the installation also emits other criteria pollutants in lesser amounts. Only calculate the potential emissions of particulate matter with an aerodynamic diameter of less than ten microns (PM<sub>10</sub>) from the installation to address applicability of the Part 70 program. Do not spend the time and resources calculating Potential to Emit (PTE) for the other emissions.

### **Potential to Emit, PTE**

Potential to emit is a means of comparing, for various source categories, sources of air pollution and for determining, for those source categories, whether the agency should be concerned (expressed through enforcement, permitting, and other agency activities) with the source. It is the best means currently available for putting dissimilar sources of air pollution on the same basis of review and concern, without regard to the particular category to which the source belongs. Potential emissions at an installation as defined in 10 CSR 10-6.020, *Definitions and Common Reference Tables*, shall be calculated based on the maximum annual-rated capacity of the installation, assuming continuous year-round operation. Federally enforceable permit conditions limiting the type of materials combusted, or processed, operating rates, hours of operation or the application of air pollution control equipment shall be used in determining the annual potential.

A federally enforceable condition is any limitation or condition that is enforceable by the Administrator. It includes all NSPS, NESHAP, and HAP requirements, requirements within the state implementation plan (SIP), any Prevention of Significant Deterioration (PSD) or non-attainment review permits, and any existing construction or operating permits.

Since the construction permit rule, 10 CSR 10-6.060, is approved by the EPA as part of the Missouri SIP, limits on emissions, production, or the operation used to calculate construction permit emission limits are enforceable by the EPA. Note: the operating permit program does not replace the federal/state construction permit program for new and modified sources.

**Example:** An installation has two boilers. One was built in the 1950's and has not been modified. The boiler is only used occasionally throughout the year. The second was built in 1987 and obtained a construction permit limiting annual boiler hours to 5000. The potential to emit calculation for the first boiler will involve multiplying an emission factor by 8760 hours per year. The second boiler's calculation will multiply an emission factor by 5000 hours per year. Even though the first boiler does not run 8760 hours per year there are no federally enforceable permit conditions restricting the boiler from operating year round, therefore the potential to emit calculation must be evaluated based on continuous operation. Since the second boiler has a construction permit, any restrictions in the permit can limit the unit's potential to emit.

### **Potential to Emit Guidance**

In calculating potential emissions, the installation may consider "inherent physical limitations" in potential to emit calculations. In other words, emissions which are constrained by process limitations rather than "maximum capacity" of the unit. Process bottlenecks are considered "physical limitations" when calculating potential to emit.

**Example:** A paint spray gun has the potential to spray paint 8760 hours per year. However, the process that the spray gun supports, can paint at a maximum, only ten widgets per hour. Instead of basing criteria pollutants potential emissions on 8760 hours operation, the potential emissions can be based on the amount of paint it takes to paint ten widgets per hour annualized.

In calculating potential emissions from emergency generators, the installation may use 500 hours of operation annually for emergency generators whose sole function is to provide backup power. Be aware that an "emergency generator" is a generator whose sole function is to provide back-up power when electric power from the local utility is interrupted. It does not apply to peaking units at electric utilities, generators at industrial installations that typically operate at low rates but are not

confined to emergency purposes, and it does not apply to any standby generator that is used during time periods when power is available from the utility.

For potential particulate emissions, be aware that the definition of regulated air pollutant under the operating permit program applies only to emissions of PM<sub>10</sub> (particulate matter with an aerodynamic diameter of less than ten microns), not particulate matter (PM) or total suspended particulate (TSPs).

### **Treatment of Fugitive Emissions**

Fugitive emissions are defined as those that cannot reasonably pass through a stack or vent. When determining Basic applicability, fugitive emissions are required to be included if any of the following criteria apply:

1. The source is within one of the source categories listed in 10 CSR 10-6.020(3)(B) Table 2, which includes any stationary source category that, as of August 7, 1980, is regulated under section 111 or 112 of the Act (see Appendix D for a complete list of section 111 (NSPS) or section 112 (MACT and NESHAP) regulations with effective dates).  
**Example:** Subpart OOO, New Source Performance Standard for Non-Metallic Mineral Processing Plants, was promulgated in 1985. Therefore, non-metallic mineral processing plants do not include fugitives in potential to emit calculations. (Fugitive emissions from these sources must be listed in the application and included in the EIQ.)
2. The fugitive emissions occur within a building.
3. Any fugitive emissions of hazardous air pollutants (see Appendix E for a complete list of hazardous air pollutants).
4. Any fugitive emissions of NO<sub>x</sub> and VOCs in an ozone non-attainment area.

If none of the above criteria are applicable, fugitive emissions are not required to be included when determining Basic applicability.

### **Missouri Deferral**

An installation is classified as a “Basic State Installation” if it is subject to a standard or other requirement under section 111 or 112 of the Act (NSPS, NESHAP or MACT), regardless of the emission level, provided the US EPA Administrator has deferred a decision on whether the installation would be subject to Part 70, including area sources (except that a source is not required to obtain a permit solely because it is subject to a federal accidental release prevention requirements under section 112(r) of the Act).

**Example:** An installation having the potential to emit more than 40 tpy but less than 100 tpy of nitrogen dioxide is a “basic” installation. Or, an installation with a boiler with heat input greater than 10 million Btu/hour that emits below *de minimis* levels, would be an example of an installation subject to a federal NSPS requirement (40 CFR Part 60, Subpart Dc), for which EPA deferred a decision on whether the installation would be Part 70. These installations are required to obtain a Basic State Operating Permit.

The NSPS, NESHAP or MACT must *specifically* say that EPA has deferred a decision on whether the installation would be Part 70 in order to require a Basic State Operating Permit. There are three possible scenarios:

1. EPA has specifically required sources subject to the NSPS, NESHAP or MACT to obtain a Part 70 Operating Permit in the rule. In this case, installations are required to obtain a Part 70 Permit regardless of their potential to emit. An example of this is the NSPS for landfills, 40 CFR Part 60, Subpart WWW.
2. EPA has specifically deferred a decision on whether the installation would be Part 70 in the rule. In this case, installations are required to obtain at least a Basic permit, regardless of their potential to emit. An example of this is non-major pre-1992 NSPS sources that are deferred until EPA does a rulemaking.



3. EPA has not made a decision either way. In this case, installations that emit below *de minimis* levels for all criteria pollutants are not required to obtain an operating permit.

### **Specific Basic State Operating Permit Type.**

Check the appropriate specific application type.

1. **Initial.** If this is a first time operating permit application for this installation.
2. **Renewal.** If the operating permit issued to the company has expired or is about to expire (submit renewal application at least six months before actual expiration date). Include the expiring permit or project number. Applications for permit renewals shall be subject to the same procedural requirements that apply to initial permit issuance.
3. **Modification.** If at any time after an operating permit notification/application has been submitted or accepted by the permitting authority, an installation determines that the notification/application contains false, misleading, incorrect or incomplete information. Also, if an operating permit notification/application fails to include or inadequately implement any applicable requirement, including any new requirement promulgated after the permitting authority's acceptance of the operating permit notification/application.
4. **Administrative Amendment.** If the revision includes any of the following:
  - a) Identifies a change in the name, address or phone number of any person identified in the permit, or provides a similar minor administrative change at the installation;
  - b) Allows for a change in ownership or operational control of an installation where no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee must be submitted to the permitting authority.

Acid rain provisions. For purposes of any acid rain portion of a Basic Operating Permit, administrative permit amendments shall be governed by rules promulgated under Title IV of the Act.
5. **Off-Permit Change.** An off-permit change occurs if a Basic Installation makes any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit. Insignificant activities not addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
  - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; The permittee may not change a permitted installation without a permit revision, if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
  - b) The permittee must provide contemporaneous written notice of the change to the permitting authority no later than the next annual emissions report (if the EIQ is filed annually) or within 365 days of the change. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3 of the code of state regulations. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change. If the installation obtained a construction permit for the off-permit change, the construction permit serves as the notification.
  - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes;
  - d) The submittal of Section A with the written notice is sufficient for an Off-Permit Change request that does not require a construction permit.
    1. **Example:** An installation has added a piece of equipment that is subject to the process weight rule, 10 CSR 10-6.400. The emission unit is not subject to a Prevention of Significant Deterioration permit or a technology standard under 40 CFR Parts 60, 61 or 63. The addition of the equipment would qualify as an off-permit change for the installation.

### **Section A-3: Installation Description**

Box 29 – Installation Description – Enter a brief description of the products and processes at the installation.

Box 30 – Emission Inventory Questionnaire (EIQ) Submittal. Answer the question by checking the appropriate box. If the answer is no, submit one copy of the EIQ for the previous calendar year with this application.

### **Section A-4. Compliance Status with all applicable requirements**

Box 31 – Will your installation be in compliance with all applicable requirements at the time of notification submittal and continue to comply with these requirements for the duration of the notification?

If the installation is in compliance with all applicable requirements and plans to continue to be in compliance with all applicable requirements during the Basic Operating permit term when the notification is submitted check “Yes”.

If the installation marks “No” in this section, they must submit a compliance plan as described in Boxes 33 & 34.

Box 32 – Will your installation be in compliance with all applicable requirements promulgated prior to this notification that contain a compliance deadline within the terms of this notification ?

If the installation will be in compliance with all applicable requirements promulgated prior to the notification and effective during the term of the permit check “Yes.” An example of this would be a MACT standard that has been promulgated and is scheduled to take effect sometime during the permit term.

If the installation marks “No” in this section, they must submit a compliance plan as described in Boxes 33 & 34.

### **Section A-5. Compliance Plan**

For each applicable requirement which the installation is currently not in compliance with and/or does not believe they will demonstrate compliance with by the compliance date of the regulation, the installation is required to submit a compliance plan.

Box 33 & 34 – If the installation is required to submit a compliance plan, enter the applicable requirement, the compliance plan and the expected date of compliance for the installation. The plan should specify what regulation(s) the installation expects not to be in compliance with and explain how compliance with the regulation(s) will be achieved. The plan should include a schedule of remedial measures and an enforceable sequence of actions, with milestones, leading to compliance. If more space is needed than is available use **SECTION C: COMMENT FORM** and/or an attachment labeled as **SECTION C: COMMENT FORM** to provide the additional information.

### **Section A-6. Certification of Compliance with All Applicable Requirements and the Applicant’s Certification Statement for Operating Permit Notification**

A responsible official must sign the compliance certification. The permit application must include a description of monitoring, record keeping, reporting and test methods required to demonstrate compliance. The responsible company official is required to certify to the truth, accuracy and completeness of the compliance certification. The certification must state that:

“Based on information formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”

If the responsible official is unable to certify that an emission unit is in compliance with an applicable requirement, a compliance plan must be submitted according to the guidelines specified in Section A-4 and A-5 above.

**Knowingly falsifying any certification is a felony under the Clean Air Act; therefore, the responsible official must take care in preparing the certification and have confidence in the accuracy and completeness of the certification.**

Applicant's certification statement must be signed by the installation's **Responsible Official**. A responsible official is:

1. The president, secretary, treasurer or vice-president of a corporation in charge of a principal business function, or any other person who performs similar policy and decision-making functions for the corporation or a duly authorized representative of this person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either-
  - a) The facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding twenty-five million dollars (in second quarter 1980 dollars); or
  - b) The delegation of authority to his representative is approved in advance by the permitting authority.
2. A general partner in a partnership or the proprietor in a sole proprietorship.
3. Either a principal executive officer or a ranking elected official in a municipality, state, federal, or other public agency. For the purpose of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the operations of a principal geographic unit of the agency; or
4. The designated representative of an affected source insofar as actions, standards, requirements or prohibitions under Title IV of the Clean Air Act or the regulations promulgated under the Act are concerned or the designated representative for any purposes under Part 70.

Applications without a signed certification will be returned as incomplete. **Signing this document has serious legal implications – both civil and criminal.** Before signing, the installation's responsible official should be confident that the materials submitted are substantially correct and that the installation is in compliance with all applicable requirements included in the application.

Certification Statement – Read and understand the certification statement.

Box 35 – Signature of Responsible Official of Company – Enter the signature of the installation's representative which satisfies the definition of responsible official, who has read and understands the certification statement contained in Section A-6.

Box 36 – Date – Enter the date of the responsible official's signature.

Box 37 – Type of Print Name of Responsible Official – Enter the name of the installation's representative, which satisfies the definition of responsible official, who signed the notification in Box 35.

Box 38 – Title of Responsible Official – Enter the title of the installation's representative, which satisfies the definition of responsible official, who signed the notification in Box 35.

## **Section B - Applicable Requirements Checklist**

This form is required to contain each applicable requirement. Under the Missouri Operating Permit Program, the owner/operator of an installation is required to identify in the permit notification all applicable regulatory requirements (Federal, State or Local) associated with the installation. This form is designed for the installation to identify all applicable requirements and how the installation will demonstrate compliance with the applicable requirements. The basis of the compliance method may come from the applicable requirement or from a methodology sufficient to demonstrate compliance.

The installation must specify all the current methodology utilized to ensure compliance with the Applicable Requirements. These methodologies include all testing, monitoring, record keeping and reporting requirements as well as any additional methods established by applicable requirements or special permit conditions to which the emission unit(s) is subject. If an applicable requirement does not specify exactly

what must be done to show compliance, the installation may propose practices that are appropriate to the Emission Unit(s).

Each installation needs to consult the appropriate sections in the Code of Federal Regulations (CFR), the Code of State Regulations (CSR) and the City of St. Louis Air Pollution Control Ordinance for the full text of the applicable requirements to understand the regulations. Appendix D, Potential Applicable Requirements Summary, contains a listing of potential applicable Federal, State and Local requirements for installations in the City of St. Louis. The following websites contain the full text of the respective applicable requirements:

Federal – 40 CFR - [http:// ecfr.gpoaccess.gov/](http://ecfr.gpoaccess.gov/)

State – 10 CSR 10 - <http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp>

City of St. Louis - Ordinance - [www.slpl.lib.mo.us/cco/](http://www.slpl.lib.mo.us/cco/) OR  
<http://stlouis.missouri.org/citygov/airpollution/history.htm>

The first step in identifying the applicable requirements is to identify the regulations applicable to the geographic location of the installation. Once the installation has identified the appropriate geographic location, the installation needs to examine the potential requirements and identify the applicable regulations on this form. Applicants must read through these requirements to verify the applicability of each regulation as well as to determine the compliance status with each requirement.

When the installation has identified the regulations and requirements that are applicable to the installation, the installation can summarize those requirements in Section B. The installation needs to identify how they will demonstrate compliance with the applicable requirements. If more space is needed than is available use **SECTION C: COMMENT FORM** and/or an attachment labeled as **SECTION C: COMMENT FORM** to provide the additional information. Sample sheets may be attached to the application which will demonstrate the proposed record keeping and reporting methods.

The installation needs to complete the following information contained on the Form for each applicable requirement and/or construction permit.

Column 1 - Regulation or Construction Permit Reference – Enter all the applicable requirements which apply to the installation. If the installation has multiple compliance options for a specific requirement, the installation can either include the requirement multiple times in the table or use **SECTION C: COMMENT FORM** to provide the compliance options.

Column 2 - Applicable Emission Point (as listed in EIQ) – Enter the emission point identification number and the EIQ year being referenced. This number should correspond to the EIQ emission point for the specific pieces of equipment subject to the applicable requirement and compliance demonstration provisions. This should be consistent with the latest EIQ submitted, if applicable. If the installation believes the entire installation is subject to the requirement, the installation can insert “PW” for Plant-Wide. If the column is left blank, it will be assumed that the requirement applies Plant-Wide.

Column 3 - Applicable Emission Limit or Standard – Enter the emission limitation, operational limitation, work practice standard or operational standard from the applicable requirement as it applies to the specific equipment (emission point reference) and compliance demonstration provisions. If the applicable requirement is a construction permit, the installation may reference the construction permit. If the applicable requirement contains only one emission limit or standard, the installation may reference the applicable requirement. However, *if the applicable requirement contains multiple emission limitations or standards, the installation needs to identify the specific requirement applicable to the equipment at the installation.*

Column 4 - Method of Compliance – Enter the current methodology utilized to ensure compliance with the Applicable Emission Limit or Standards. These methodologies include all testing, monitoring, record keeping and reporting requirements as well as any additional methods established by applicable requirements or special permit conditions to which the emission unit(s) is subject. If an applicable requirement does not specify exactly what must be done to show compliance, the installation may propose practices that are appropriate to the Emission Unit(s).

If the applicable requirement is a construction permit or City of St. Louis source registration permit, the installation may reference the construction permit or source registration. If the applicable requirement contains only one compliance demonstration methodology, the installation may reference the applicable requirement. However, *if the applicable requirement contains multiple compliance options, the installation needs to identify the specific option and/or options chosen by the installation to demonstrate compliance with the applicable requirement.*

The table already contains requirements, which are commonly identified as “core permit requirements”, that are applicable to each installation depending on their geographic location. These requirements are a summarization of the applicable standards. Each installation needs to consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR) and City of St. Louis Ordinance for the full text of the applicable requirements to understand the regulations. The installation needs to read the requirements and identify the applicable emission point (as listed in the EIQ) for each core permit requirement.

Example: The following are some examples for completing the table:

| Column 1   | Column 2                                     | Column 3   | Column 4  |
|--|--|--|---|
| Regulation or Construction Permit Reference  | Applicable Emission Point (as listed in EIQ) | Applicable Emission Limit or Standard  | Method of Compliance  |
| 10 CSR 10-5.030, Max Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating | EP 8,9 (2009)                                | ≤ 0.60 lbs PM/MMBTU  | The equipment shall be limited to burning natural gas and #2 fuel oil and maintain fuel receipts and Potential Emission Calculations. |
| 10 CSR 10-6.060, Construction Permits CP #1098-003 (OR: City of St. Louis Source Registration SR10.999)              | EP 5-7 (2009)                                | As listed in CP. Refer to Section C: for details of CP or SR requirements.   | As listed in CP. Refer to Section C: for details of CP or SR requirements.  |
| 10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds   | EP 8, 9 (2009)                               | ≤ 2000 PPMV sulfur dioxide; ≤ 70 mg/m <sup>3</sup> sulfuric acid or sulfur trioxide or combination on consecutive 3 hr avg; and Ambient Air Quality Standards of 10 CSR 10-6.010 | The equipment shall be limited to burning natural gas and #2 fuel oil and maintain fuel receipts and Potential Emission Calculations. |

## Section C - Comment Form

Additional information that may further clarify an aspect of the installation’s operating permit application that has not been addressed on another form can be included on this page. For any comment made, please be sure to include: the installation’s name, three digit FIPS number, four digit Plant ID number and Year application was submitted. If details about specific equipment or emission units are made, then provide Emission Unit/Point numbers (consistent with EIQ points) and reference the form or section to which the information pertains.

This Section can be useful for including all applicable construction permit or source registration requirements so they can be referenced along with the permit, or for providing additional detail regarding the method of compliance.

## Appendix A, County Information

| County Information |               |             |      |               |             |            |               |                       |
|--------------------|---------------|-------------|------|---------------|-------------|------------|---------------|-----------------------|
| FIPS               | County Number | County Name | FIPS | County Number | County Name | FIPS       | County Number | County Name           |
| 001                | 0020          | Adair       | 079  | 1880          | Grundy      | 157        | 3620          | Perry                 |
| 003                | 0040          | Andrew      | 081  | 1940          | Harrison    | 159        | 3660          | Pettis                |
| 005                | 0060          | Atchison    | 083  | 2020          | Hentry      | 161        | 3680          | Phelps                |
| 007                | 0080          | Audrain     | 085  | 2060          | Hickory     | 163        | 3700          | Pike                  |
| 009                | 0140          | Barry       | 087  | 2120          | Holt        | 165        | 3740          | Platte                |
| 011                | 0160          | Barton      | 089  | 2140          | Howard      | 167        | 3780          | Polk                  |
| 013                | 0180          | Bates       | 091  | 2160          | Howell      | 169        | 3860          | Pulaski               |
| 015                | 0250          | Benton      | 093  | 2200          | Iron        | 171        | 3880          | Putnam                |
| 017                | 0340          | Bollinger   | 095  | 2240          | Jackson     | 173        | 3900          | Ralls                 |
| 019                | 0380          | Boone       | 097  | 2260          | Jasper      | 175        | 3920          | Randolph              |
| 021                | 0520          | Buchanan    | 099  | 2280          | Jefferson   | 177        | 3940          | Ray                   |
| 023                | 0560          | Butler      | 101  | 2340          | Johnson     | 179        | 3980          | Reynolds              |
| 025                | 0580          | Caldwell    | 103  | 2480          | Knox        | 181        | 4040          | Ripley                |
| 027                | 0620          | Callaway    | 105  | 2500          | Laclede     | 183        | 4160          | St. Charles           |
| 029                | 0640          | Camden      | 107  | 2540          | Lafayette   | 185        | 4200          | St. Clair             |
| 031                | 0720          | Cape Gir.   | 109  | 2580          | Lawrence    | 187        | 4220          | St. Francois          |
| 033                | 0740          | Carroll     | 111  | 2640          | Lewis       | <b>510</b> | <b>4280</b>   | <b>St. Louis City</b> |
| 035                | 0780          | Carter      | 113  | 2700          | Lincoln     | 189        | 4300          | St. Louis             |
| 037                | 0840          | Cass        | 115  | 2720          | Linn        | 186        | 4340          | Ste Genevieve         |
| 039                | 0860          | Cedar       | 117  | 2740          | Livingston  | 195        | 4380          | Saline                |
| 041                | 0920          | Chariton    | 119  | 2780          | McDonald    | 197        | 4400          | Schuyler              |
| 043                | 0980          | Christian   | 121  | 2820          | Macon       | 199        | 4420          | Scotland              |
| 045                | 1000          | Clark       | 123  | 2840          | Madison     | 201        | 4440          | Scott                 |
| 047                | 1020          | Clay        | 125  | 2920          | Maries      | 203        | 4480          | Shannon               |
| 049                | 1080          | Clinton     | 127  | 2940          | Marion      | 205        | 4500          | Shelby                |
| 051                | 1100          | Cole        | 129  | 3000          | Mercer      | 207        | 4600          | Stoddard              |
| 053                | 1140          | Cooper      | 131  | 3040          | Miller      | 209        | 4620          | Stone                 |
| 055                | 1160          | Crawford    | 133  | 3060          | Mississippi | 211        | 4680          | Sullivan              |
| 057                | 1240          | Dade        | 135  | 3140          | Moniteau    | 213        | 4720          | Taney                 |
| 059                | 1260          | Dallas      | 137  | 3160          | Monroe      | 215        | 4740          | Texas                 |
| 061                | 1280          | Daviess     | 139  | 3180          | Montgomery  | 217        | 4860          | Vernon                |
| 063                | 1300          | DeKalb      | 141  | 3200          | Morgan      | 219        | 4880          | Warren                |
| 065                | 1360          | Dent        | 143  | 3300          | New Madrid  | 221        | 4940          | Washington            |
| 067                | 1420          | Douglas     | 145  | 3320          | Newton      | 223        | 4960          | Wayne                 |
| 069                | 1440          | Dunklin     | 147  | 3340          | Nodaway     | 225        | 5000          | Webster               |
| 071                | 1680          | Franklin    | 149  | 3460          | Oregon      | 227        | 5140          | Worth                 |
| 073                | 1760          | Gasconade   | 151  | 3480          | Osage       | 229        | 5160          | Wright                |
| 075                | 1780          | Gentry      | 153  | 3520          | Ozark       | <b>777</b> | <b>7777</b>   | <b>Portables</b>      |
| 077                | 1860          | Greene      | 155  | 3600          | Pemiscot    |            |               |                       |

## Appendix B, Major Group Standard Industrial Classification (SIC) Codes

| <b><u>Code</u></b> | <b><u>Major Group Title</u></b>  |
|--------------------|--|
| 01                 | Agriculture production - crops   |
| 02                 | Agriculture production - livestock and animal specialties  |
| 07                 | Agricultural services  |
| 08                 | Forestry   |
| 09                 | Fishing, hunting, and trapping   |
| 10                 | Metal mining   |
| 12                 | Coal mining  |
| 13                 | Oil and gas extraction   |
| 14                 | Mining and quarrying of nonmetallic minerals, except fuels   |
| 15                 | Building construction - general contractors and operative builders   |
| 16                 | Heavy construction other than building construction - contractors  |
| 17                 | Construction - special trade contractors   |
| 20                 | Food and kindred products  |
| 21                 | Tobacco products   |
| 22                 | Textile mill products  |
| 23                 | Apparel and other finished products made from fabrics and similar materials                                    |
| 24                 | Lumber and wood products, except furniture   |
| 25                 | Furniture and fixtures   |
| 26                 | Paper and allied products  |
| 27                 | Printing, publishing, and allied industries  |
| 28                 | Chemicals and allied products  |
| 29                 | Petroleum refining and related industries  |
| 30                 | Rubber and miscellaneous plastics products   |
| 31                 | Leather and leather products   |
| 32                 | Stone, clay, glass, and concrete products  |
| 33                 | Primary metal industries   |
| 34                 | Fabricated metal products, except machinery and transportation equipment                                       |
| 35                 | Industrial and commercial machinery and computer equipment   |
| 36                 | Electronic and other electrical equipment and components, except computer equipment                            |
| 37                 | Transportation equipment   |
| 38                 | Measuring, analyzing, and controlling instruments; photographic, medical and optical goods; watches and clocks |
| 39                 | Miscellaneous manufacturing industries   |
| 40                 | Railroad transportation  |
| 41                 | Local and suburban transit and interurban highway passenger transportation                                     |
| 42                 | Motor freight transportation and warehousing   |
| 43                 | United States Postal Service   |
| 44                 | Water transportation   |
| 45                 | Transportation by air  |
| 46                 | Pipelines, except natural gas  |
| 47                 | Transportation services  |
| 48                 | Communications   |
| 49                 | Electric, gas, and sanitary services   |
| 50                 | Wholesale trade - durable goods  |
| 51                 | Wholesale trade - nondurable goods   |
| 52                 | Building materials, hardware, garden supply, and mobile home dealers   |
| 53                 | General merchandise stores   |
| 54                 | Food stores  |
| 55                 | Automotive dealers and gasoline service stations   |
| 56                 | Apparel and accessory stores   |
| 57                 | Home furniture, furnishings and equipment stores   |
| 58                 | Eating and drinking places   |
| 59                 | Miscellaneous retail   |

## Appendix B (Continued)

| Code | Major Group Title   |
|------|---|
| 60   | Depository institutions   |
| 61   | Non-depository credit institutions                                  |
| 62   | Security and commodity brokers, dealers, exchanges, and services    |
| 63   | Insurance carriers  |
| 64   | Insurance agents, brokers, and services                             |
| 65   | Real estate   |
| 67   | Holding and other investment offices                                |
| 70   | Hotels, rooming houses, camps, and other lodging places             |
| 72   | Personal services   |
| 73   | Business services   |
| 75   | Automotive repairs, services, and parking                           |
| 76   | Miscellaneous repair services                                       |
| 78   | Motion pictures   |
| 79   | Amusement and recreation services                                   |
| 80   | Health services   |
| 81   | Legal services  |
| 82   | Educational services  |
| 83   | Social services   |
| 84   | Museums, art galleries, and botanical and zoological gardens        |
| 86   | Membership organizations  |
| 87   | Engineering, accounting, research, management, and related services |
| 88   | Private households  |
| 89   | Miscellaneous services  |
| 91   | Executive, legislative, and general government, except finance      |
| 92   | Justice, public order, and safety                                   |
| 93   | Public finance, taxation, and monetary policy                       |
| 94   | Administration of human resource programs                           |
| 95   | Administration of environmental quality and housing programs        |
| 96   | Administration of economic programs                                 |
| 97   | National security and international affairs                         |
| 99   | Non-classifiable establishments                                     |



## Appendix C, Emission Limit Thresholds

Note: If the installation is in an area that is a non-attainment zone, the below numbers may change. Currently, a moderate nonattainment area for ozone consists of Franklin, Jefferson, St. Charles and St. Louis Counties, and the **City of St. Louis**. Also nonattainment areas for lead include the city of Herculaneum in Jefferson County, and the Dent, Liberty and Arcadia townships in Iron County. To see if the facility is in a non-attainment zone and the associated rules, check 10 CSR 10-6.065, web site <http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp>

If the installation's Potential to Emit (PTE) is below all the levels in the table below, then the installation is not required to submit an operating permit application. Potential to Emit is calculated by multiplying maximum emissions (MHDR \* Emission Factor) by the maximum hours per year (8760) as explained on Pages 7 and 8 of the instructions.

| <i>De Minimis</i> Emission Levels  |                            |
|--|----------------------------|
| <i>Air Contaminant</i>   | <i>Emission Rate (tpy)</i> |
| Carbon monoxide (CO)   | 100.0                      |
| Nitrogen dioxide (NO <sub>2</sub> )  | 40.0                       |
| Particulate Matter   |                            |
| PM   | 25.0                       |
| PM <sub>10</sub> (Particulate matter smaller than 10 microns in diameter)  | 15.0                       |
| PM <sub>2.5</sub> (Particulate matter smaller than 2.5 microns in diameter)  | 10.0                       |
| Sulfur dioxide (SO <sub>2</sub> )  | 40.0                       |
| Ozone (to be measured as VOC)  | 40.0                       |
| Lead (Pb)  | 0.6                        |
| Mercury (Hg)   | 0.1                        |
| Beryllium (Be)   | 0.0004                     |
| Asbestos   | 0.007                      |
| Fluorides  | 3.0                        |
| Sulfur acid mist   | 7.0                        |
| Vinyl chloride   | 1.0                        |
| Hydrogen sulfide   | 10.0                       |
| Total reduced sulfur (including hydrogen sulfide)  | 10.0                       |
| Reduced sulfur compounds (including hydrogen sulfide)  | 10.0                       |
| Municipal waste combustor organics (measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans) | $3.5 \times 10^{-6}$       |
| Municipal waste combustor metals (measured as particulate matter)  | 15.0                       |
| Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)                                    | 40.0                       |
| Municipal solid waste landfill emissions (measured as nonmethane organic compounds)  | 50.0                       |
| Hazardous air pollutants (HAPs) (each) (See Appendix E for listings of HAPs)   | 10.0                       |
| Sum of hazardous air pollutants  | 25.0                       |

If one or more criteria pollutant for the facility's (PTE) is above the *de minimis* levels shown above and below the Major Source Threshold Levels shown below, then the facility is considered a Basic.

| Major Source Threshold Levels                    |                            |
|--|----------------------------|
| <i>Air Contaminant</i>                           | <i>Emission Rate (tpy)</i> |
| Carbon monoxide                                  | 100.0                      |
| PM <sub>10</sub>                                 | 100.0                      |
| Sox  | 100.0                      |
| Nox  | 100.0                      |
| Volatile Organic Compounds (VOC)                 | 100.0                      |
| Lead   | 5.0                        |
| Hazardous air pollutants (each) (See Appendix E) | 10.0                       |
| Sum of hazardous air pollutants                  | 25.0                       |

If the facility's Potential to Emit is above the threshold for a Major Source, then it is considered a Part 70 (Major) source. Example: 101 tpy PTE sulfur dioxide would make any source a Part 70 source.

The Part 70 source example discussed above would be considered an Intermediate source only if they place Voluntary Limitations on the facility. For example, if the source placed a limitation on the hours of operation or materials combusted to lower SO<sub>2</sub> emissions, they would be considered an Intermediate source if the limited potential-to-emit is calculated below Major thresholds.

## Appendix D, Potential Applicable Requirements Summary

### Entire State of Missouri – Code of State Regulations -Chapter 6

– Please use this potential applicable requirements summary as a reference point if located **within the state of Missouri**.

| Effective Date | Title           | Organization  |
|----------------|-----------------|---|
| 01/30/2008     | 10 CSR 10-6.045 | Open Burning Requirements <sup>1</sup>  |
| 11/11/1979     | 10 CSR 10-6.050 | Start-Up, Shutdown, and Malfunction Conditions <sup>1</sup>   |
| 05/13/ 1982    | 10 CSR 10-6.060 | Construction Permits Required <sup>1</sup>  |
| 05/09/1994     | 10 CSR 10-6.065 | Operating Permits <sup>1</sup>  |
| 04/11/1980     | 10 CSR 10-6.070 | New Source Performance Regulations ( <b>NOTE:</b> if applicable, please examine specific subparts on NSPS summary) <sup>2</sup>                 |
| 12/30/1996     | 10 CSR 10-6.075 | Maximum Achievable Control Technology Regulations ( <b>NOTE:</b> if applicable, please examine specific subparts on MACT summary) <sup>2</sup>  |
| 04/11/1980     | 10 CSR 10-6.080 | Emission Standards for Hazardous Air Pollutants ( <b>NOTE:</b> if applicable, please examine specific subparts on NESHAP summary ) <sup>2</sup> |
| 08/13/1981     | 10 CSR 10-6.090 | Restriction of Emission of Fluorides From Primary Aluminum Reduction Installations <sup>1</sup>   |
| 12/11/1982     | 10 CSR 10-6.100 | Alternate Emission Limits (for ozone nonattainment areas) <sup>2</sup>  |
| 11/12/1984     | 10 CSR 10-6.110 | Submission of Emission Data, Emission Fees and Process Information <sup>1</sup>   |
| 12/29/1988     | 10 CSR 10-6.120 | Restriction of Emissions of Lead From Specific Lead Smelter-Refinery Installations <sup>1</sup>   |
| 10/11/1984     | 10 CSR 10-6.130 | Controlling Emissions During Episodes of High Air Pollution <sup>1</sup>  |
| 05/11/1986     | 10 CSR 10-6.140 | Restriction of Emissions Credit for Reduced Pollutant Concentrations from the use of Dispersion Techniques <sup>1</sup>                         |
| 11/30/1990     | 10 CSR 10-6.150 | Circumvention <sup>1</sup>  |
| 11/30/1990     | 10 CSR 10-6.170 | Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin <sup>1</sup>   |
| 12/31/1990     | 10 CSR 10-6.180 | Measurement of Emissions of Air Contaminants <sup>1</sup>   |
| 06/30/1999     | 10 CSR 10-6.200 | Hospital, Medical, Infectious Waste Incinerators <sup>1</sup>   |
| 05/09/1994     | 10 CSR 10-6.210 | Confidential Information <sup>1</sup>   |
| 12/30/1999     | 10 CSR 10-6.220 | Restriction of Emission of Visible Air Contaminants <sup>1</sup>  |
| 07/08/1993     | 10 CSR 10-6.230 | Administrative Penalties <sup>2</sup>   |
| 9/30/2004      | 10 CSR 10-6.241 | Asbestos Abatement Projects—Registration, Notification and Performance Requirements <sup>2</sup>  |
| 09/09/1993     | 10 CSR 10-6.250 | Asbestos Abatement Projects-Certification, Accreditation, and Business Exemption Requirements <sup>2</sup>                                      |
| 08/30/1996     | 10 CSR 10-6.260 | Restriction of Emission of Sulfur Compounds <sup>1</sup>  |
| 12/30/1994     | 10 CSR 10-6.270 | Acid Rain Source Permits Required – (If applicable, submit acid rain permit applications to the EPA) <sup>2</sup>                               |
| 12/30/1994     | 10 CSR 10-6.280 | Compliance Monitoring Usage <sup>1</sup>  |
| 09/30/1997     | 10 CSR 10-6.310 | Restriction of Emissions From Municipal Solid Waste Landfills <sup>1</sup>  |
| 07/30/1998     | 10 CSR 10-6.330 | Restriction of Emissions From Batch-Type Charcoal Kilns <sup>1</sup>  |
| 09/30/2000     | 10 CSR 10-6.350 | Emission Limitations and Emissions Trading of Oxides of Nitrogen <sup>1</sup>   |
| 08/30/2000     | 10 CSR 10-6.400 | Restriction of Emission of Particulate Matter From Industrial Processes <sup>1</sup>  |

## Appendix D (Continued)

### Entire State of Missouri – New Source Performance Regulations – 10 CSR 10-6.070 and 40 CFR Part 60

– Please use this potential applicable requirements summary as a reference point **if subject to 10 CSR 10-6.070** for Chapter 6 Regulations. If not subject to 10 CSR 10-6.070, please skip to the next category of requirements.

| Effective Date of Construction or Modification | Subpart | 40 CFR Part 60 – New Source Performance Standards - Source Categories  |
|--|---------|--|
|  | A       | General Provisions   |
| 08/17/1971                                     | D       | Fossil-Fuel Fired Steam Generators (construction started after 8/17/71)  |
| 09/18/1978                                     | Da      | Electric Utility Steam Generating Units(construction started after 9/18/78)  |
| 06/19/1984                                     | Db      | Industrial-Commercial-Institutional Steam Generating Units   |
| 06/09/1989                                     | Dc      | Small Industrial-Commercial-Institutional Steam Generating Units   |
| 08/17/1971                                     | E       | Incinerators   |
| Between 12/20/1989 & 09/20/1994                | Ea      | Municipal Waste Combustors Constructed Between 12-20-89 / 9-20-94  |
| 09/20/1994                                     | Eb      | Municipal Waste Combustors After 9-20-94   |
| 06/20/1996                                     | Ec      | Hospital/Medical/Infectious Waste Incinerators Constructed After 6-20-96   |
| 08/17/1971                                     | F       | Portland Cement Plants   |
| 08/17/1971                                     | G       | Nitric Acid Plants   |
| 08/17/1971                                     | H       | Sulfuric Acid Plants   |
| 06/11/1973                                     | I       | Asphalt / Concrete Plants  |
| 06/11/1973                                     | J       | Petroleum Refineries   |
| Between 06/11/1973 & 05/19/1978                | K       | Storage vessels for Petroleum Liquids which construction, reconstruction or Modification started between (6/11/73 – 5/19/78) |
| Between 05/19/1978 & 07/23/1984                | Ka      | Storage Vessels for Petroleum Liquids 5/19/78 – 7/23/84  |
| 07/23/1984                                     | Kb      | Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) after 7/23/84                           |
| 06/11/1973                                     | L       | Secondary Lead Smelters  |
| 06/11/1973                                     | M       | Secondary Brass and Bronze Production Plants   |
| 06/11/1973                                     | N       | Primary Emissions from Basic Oxygen Process Furnaces(construction after 6/11/73  |
| 01/20/1983                                     | Na      | Secondary Emissions from Basic Oxygen Process Steelmaking Facilities (Construction started after 1/20/83)                    |
| 06/11/1973                                     | O       | Sewage Treatment Plants  |
| 10/16/1974                                     | P       | Primary Copper Smelters  |
| 10/16/1974                                     | Q       | Primary Zinc Smelters  |
| 10/16/1974                                     | R       | Primary Lead Smelters  |
| 10/23/1974                                     | S       | Primary Aluminum Reduction Plants  |
| 10/22/1974                                     | T       | Phosphate Fertilizer Industry; Wet-Process Phosphoric Acid Plants  |
| 10/22/1974                                     | U       | Phosphate Fertilizer Industry; Superphosphoric Acid Plants   |
| 10/22/1974                                     | V       | Phosphate Fertilizer Industry; Diammonium Phosphate Plants   |
| 10/22/1974                                     | W       | Phosphate Fertilizer Industry; Triple Superphosphate Plants  |
| 10/22/1974                                     | X       | Phosphate Fertilizer Industry; Granular Triple Superphosphate Storage Facilities   |
| 10/22/1974                                     | Y       | Coal Preparation Plants  |
| 10/21/1974                                     | Z       | Ferroalloy Production Facilities   |
| Between 10/21/1974 & 08/17/1983                | AA      | Steel Plants Electric Arc Furnaces (Constructed from 11/21/74 to 8/17/83)  |
| 08/17/1983                                     | AAa     | Steel Plants Electric Arc Furnaces and Argon-oxygen Decarburization Vessels (Constructed after 8/7/83)                       |

## Appendix D (Continued)

### Entire State of Missouri – New Source Performance Regulations – 10 CSR 10-6.070 and 40 CFR Part 60 (Continued)

| Effective Date of Construction or Modification | Subpart | 40 CFR Part 60 – New Source Performance Standards - Source Categories  |
|--|---------|--|
| 09/24/1976                                     | BB      | Kraft Pulp Mills   |
| 06/15/1979                                     | CC      | Glass Manufacturing Plants   |
| 08/03/1978                                     | DD      | Grain Elevators  |
| 11/28/1980                                     | EE      | Surface Coating of Metal Furniture   |
|  | FF      | [Reserved]   |
| 10/03/1977                                     | GG      | Stationary Gas Turbines  |
| 05/03/1977                                     | HH      | Lime Manufacturing Plants  |
| 01/14/1980                                     | KK      | Lead-Acid Battery Manufacturing  |
| 08/24/1982                                     | LL      | Metallic Mineral Processing Plants   |
| 10/05/1979                                     | MM      | Automobile and Light-Duty Truck Surface Coating Operations   |
| 09/21/1979                                     | NN      | Phosphate Rock Plants  |
| 02/04/1980                                     | PP      | Ammonium Sulfate Manufacture   |
| 08/28/1980                                     | QQ      | Graphic Arts Industry; Publication Rotogravure Printing  |
| 12/30/1980                                     | RR      | Pressure Sensitive Tape and Label Surface Coating Operations   |
| 12/24/1980                                     | SS      | Industrial Surface Coating Large Appliances  |
| 01/05/1981                                     | TT      | Metal Coil Surface Coating   |
| 11/18/1980                                     | UU      | Asphalt Processing and Asphalt Roofing Manufacture   |
| 01/05/1981                                     | VV      | Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry                             |
| 11/26/1980                                     | WW      | Beverage Can Surface Coating Industry  |
| 12/17/1980                                     | XX      | Bulk Gasoline Terminals  |
| 07/01/1988                                     | AAA     | New Residential Wood Heaters   |
| 01/20/1983                                     | BBB     | Rubber Tire Manufacturing Industry   |
|  | CCC     | [Reserved]   |
| 09/30/1987                                     | DDD     | Polymer Manufacturing Industry   |
|  | EEE     | [Reserved]   |
| 01/18/1983                                     | FFF     | Flexible Vinyl and Urethane Coating and Printing   |
| 01/04/1983                                     | GGG     | Equipment Leaks of VOC in Petroleum Refineries   |
| 11/23/1982                                     | HHH     | Synthetic Fiber Production Facilities  |
| 10/21/1983                                     | III     | VOC Emissions from SOCM I Air Oxidation Unit Processes   |
| 12/14/1982                                     | JJJ     | Petroleum Dry Cleaners   |
| 01/20/1984                                     | KKK     | Equipment Leaks of VOC from Onshore Natural Gas Processing   |
| 01/20/1984                                     | LLL     | Onshore Natural Gas Processing-SO <sub>2</sub> Emissions   |
|  | MMM     | [Reserved]   |
| 12/30/1983                                     | NNN     | VOC Emissions from SOCM I Distillation Operations  |
| 08/31/1983                                     | OOO     | Nonmetallic Mineral Processing Plants  |
| 02/07/1987                                     | PPP     | Wool Fiberglass Insulation Manufacturing Plants  |
| 05/04/1987                                     | QQQ     | VOC Emissions form Petroleum Refinery Wastewater Systems   |
| 06/29/1990                                     | RRR     | Synthetic Organic Chemical Manufacturing Reactor Processes   |
| 01/22/1986                                     | SSS     | Magnetic Tape Coating Facilities   |
| 01/08/1986                                     | TTT     | Industrial Surface Coating of Plastic Parts for Business Machines  |
| 04/23/1986                                     | UUU     | Calciners and Dryers in Mineral Industries   |
| 04/30/1987                                     | VVV     | Polymeric Coating of Supporting Substrates Facilities  |
| 05/30/1991                                     | WWW     | Landfills  |
| 06/06/2001                                     | AAAA    | Small Municipal Waste Combustion Units (started after 8/30/99, Modifications or Reconstruction after 6/6/01) |

## Appendix D (Continued)

### Entire State of Missouri – New Source Performance Regulations – 10 CSR 10-6.070 and 40 CFR Part 60 (Continued)

| Effective Date of Construction or Modification | Subpart | 40 CFR Part 60 – New Source Performance Standards - Source Categories   |
|--|---------|---|
| 11/30/1999 (or) 06/01/2001                     | CCCC    | Commercial and Industrial Solid Waste Incineration Units for Which Construction is Commenced After November 30, 1999 or for which Modification or Reconstruction is Commenced on or After June 1, 2001    |
| 11/30/1999                                     | DDDD    | Emissions Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units that Commenced Construction On or Before November 30, 1999   |
| 12/09/2004 (or) 06/16/2006                     | EEEE    | Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced after 12/9/2004; or for which Modification or Reconstruction is Commenced on or after June 16, 2006 |
| 12/09/2004                                     | FFFF    | Emission Guidelines and Compliance Times for Other Solid Waste Incineration units that commenced construction on or before 12/9/2004  |
| 11/15/1990                                     | HHHH    | Emissions Guidelines and Compliance Times for Coal Fired Electric Steam Generating Units  |
| 07/11/2005                                     | IIII    | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  |
| Various 2006-2009                              | JJJJ    | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  |
| 02/18/2005                                     | KKKK    | Standards of Performance for Stationary Combustion Turbines   |

## Appendix D (Continued)

### Entire State of Missouri – Maximum Achievable Control Technology Standards – 10 CSR 10-6.075 and 40 CFR Part 63

– Please use this potential applicable requirements summary as a reference point **if subject to 10 CSR 10-6.075 for Chapter 6 Regulations**. If not subject to 10 CSR 10-6.075, please skip to the next category of requirements.

| Promulgation (Effective) Date      | Subpart | 40 CFR Part 63 – Maximum Achievable Control Technology - Source Categories  |
|------------------------------------|---------|---|
| 3/16/1994                          | A       | General Provisions  |
| 5/20/1994                          | B       | Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Sections 112(g) and 112(j)                          |
| 04/22/1994<br>05/12/1998           | F       | Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry   |
| 04/22/1994                         | G       | Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater |
| 04/22/1994                         | H       | Organic Hazardous Air Pollutants for Equipment Leaks  |
| 04/22/1994                         | I       | Organic Hazardous Air Pollutants for Certain Process Subject to the Negotiated Regulation for Equipment Leaks   |
| 07/10/2002                         | J       | Polyvinyl Chloride Copolymers Production  |
|                                    | K       | [Reserved]  |
| 10/27/1993                         | L       | Coke Oven Batteries   |
| 09/22/1993                         | M       | Perchloroethylene Air Emission for Dry Cleaning   |
| 01/25/1995                         | N       | Chromium Emissions from Hard and Decorative Chromium Electroplating and from Chromium Anodizing Tanks   |
| 12/06/1994                         | O       | Ethylene Oxide Emission for Sterilization Facilities  |
| 09/08/1994                         | Q       | Hazardous Air Pollutants for Industrial Process Cooling Towers  |
| 12/14/1994                         | R       | Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)   |
| I - 04/15/1998<br>III - 03/08/1996 | S       | Hazardous Air Pollutants from the Pulp and Paper Industry   |
| 12/02/1994                         | T       | Halogenated Solvent Cleaning  |
| 09/05/1996                         | U       | Group I Polymers and Resins   |
| 03/08/1995                         | W       | Epoxy Resins Production and Non-Nylon Polyamides Production   |
| 06/23/1995                         | X       | Hazardous Air Pollutants from Secondary Lead Smelting   |
| 09/19/1995                         | Y       | National Emission Standards for Marine Vessel Loading and Unloading Operations  |
|                                    | Z       | [Reserved]  |
| 06/10/1999                         | AA      | Hazardous Air Pollutants from Phosphoric Acid Manufacturing Plants  |
| 06/10/1999                         | BB      | Hazardous Air Pollutants from Phosphate Fertilizer Production Plants  |
| 08/18/1995                         | CC      | Hazardous Air Pollutants; Petroleum Refineries  |
| 07/01/1996                         | DD      | Off-Site Waste and Recovery Operations  |
| 12/15/1994                         | EE      | Magnetic Tape Manufacturing Operations  |
|                                    | FF      | [Reserved]  |
| 09/01/1995                         | GG      | Hazardous Air Pollutants for Source Categories: Aerospace Manufacturing and Rework Facilities   |
| 06/17/1999                         | HH      | Hazardous Air Pollutants from Oil and Natural Gas Production Facilities   |
| 12/15/1995                         | II      | Hazardous Air Pollutants for Shipbuilding & Ship Repair (Surface Coating) Operations  |
| 12/07/1995                         | JJ      | Hazardous Air Pollutant Emissions from Wood Furniture Manufacturing   |
| 05/30/1996                         | KK      | Printing and Publishing Industry  |
| 10/07/1997                         | LL      | Hazardous Air Pollutants for Primary Aluminum Reduction Plants  |
| 04/14/2003                         | MM      | Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills   |
| 7/1/1996                           | OO      | Tanks—Level 1   |
| 7/1/1996                           | PP      | Containers  |
| 7/1/1996                           | QQ      | Surface Impoundments  |
| 7/1/1996                           | RR      | Individual Drain Systems  |
| 6/29/1999                          | SS      | Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process  |

## Appendix D (Continued)

### Entire State of Missouri – Maximum Achievable Control Technology Standards – 10 CSR 10-6.075 and 40 CFR Part 63 (Continued)

| Promulgation (Effective) Date | Subpart | 40 CFR Part 63 – Maximum Achievable Control Technology - Source Categories                             |
|-------------------------------|---------|--|
| 6/29/1999                     | TT      | Equipment Leaks—Control Level 1  |
| 6/29/1999                     | UU      | Equipment Leaks—Control Level 2 Standards  |
| 7/1/1996                      | VV      | Oil Water Separators and Organic-Water Separators  |
| 6/29/1999                     | WW      | Storage Vessels (tanks)—Control Level 2  |
| 06/29/1999<br>07/12/2002      | YY      | Hazardous Air Pollutants for Source Categories: Generic Maximum Available Control Technology Standards |
| 06/22/1999                    | CCC     | Steel Pickling HCl Process Facilities and Hydrochloric Acid Regeneration Plants                        |
| 06/01/1999                    | DDD     | Hazardous Air Pollutants for Mineral Wool Production   |
| 09/30/1999                    | EEE     | Hazardous Air Pollutants from Hazardous Waste Combustors   |
|                               | FFF     | [Reserved]   |
| 09/21/1998                    | GGG     | Pharmaceuticals Production   |
| 06/17/1999                    | HHH     | Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities                          |
| 10/07/1998                    | III     | Hazardous Air Pollutants for Flexible Polyurethane Foam Production                                     |
| 09/12/1996                    | JJJ     | Hazardous Air Pollutant Emissions: Group IV Polymers and Resins  |
| 06/14/1999                    | LLL     | Hazardous Air Pollutants from the Portland Cement Manufacturing Industry                               |
| 06/23/1999                    | MMM     | Hazardous Air Pollutants for Pesticide Active Ingredient Production                                    |
| 06/14/1999                    | NNN     | Hazardous Air Pollutants for Wool Fiberglass Manufacturing   |
| 01/20/2000                    | OOO     | Manufacture of Amino/Phenolic Resins   |
| 06/01/1999                    | PPP     | Hazardous Air Pollutant Emissions for Polyether Polyols Production                                     |
| 06/12/2002                    | QQQ     | Primary Copper Smelting  |
| 03/23/2000                    | RRR     | Secondary Aluminum Production  |
|                               | SSS     | [Reserved]   |
| 06/04/1999                    | TTT     | Hazardous Air Pollutants for Primary Lead Smelting   |
| 04/11/2002                    | UUU     | Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units   |
| 10/26/1999                    | VVV     | Hazardous Air Pollutants: Publicly Owned Treatment Works   |
|                               | WWW     | [Reserved]   |
| 05/20/1999                    | XXX     | Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese                |
| 01/16/2003                    | AAAA    | Municipal Solid Waste Landfills  |
| 05/21/2001                    | CCCC    | Manufacturing of Nutritional Yeast   |
| 7/30/2004                     | DDDD    | Plywood and Composite Wood Products  |
| 2/3/2004                      | EEEE    | Organic Liquid Distribution (non-gasoline)   |
| 11/10/2003                    | FFFF    | Miscellaneous Organic Chemical Manufacturing   |
| 04/12/2001                    | GGGG    | Solvent Extraction for Vegetable Oil Production  |
| 04/11/2002                    | HHHH    | Wet Formed Fiberglass Mat Production   |
| 4/26/2004                     | IIII    | Automobile and Light Duty Truck Coating/Manufacturing  |
| 12/04/2002                    | JJJJ    | Paper and Other Web Coating  |
| 11/13/2003                    | KKKK    | Surface Coating of Metal Cans  |
| 1/2/2004                      | MMMM    | Surface Coating of Miscellaneous Metal Parts and Products  |
| 07/23/2002                    | NNNN    | Surface Coating of Large Appliances  |
| 05/29/2003                    | OOOO    | Printing, Coating and Dyeing of Fabrics and Other Textiles   |
| 4/19/2004                     | PPPP    | Surface Coating of Plastic Parts   |
| 05/28/2003                    | QQQQ    | Surface Coating of Wood Building Products  |
| 05/23/2003                    | RRRR    | Surface Coating of Metal Furniture   |
| 06/10/2002                    | SSSS    | Surface Coating of Metal Coil  |
| 02/27/2002                    | TTTT    | Leather Finishing Operations   |
| 06/11/2002                    | UUUU    | Cellulose Production Manufacturing   |

## Appendix D (Continued)

### Entire State of Missouri – Maximum Achievable Control Technology Standards – 10 CSR 10-6.075 and 40 CFR Part 63 (Continued)

| Promulgation (Effective) Date | Subpart | 40 CFR Part 63 – Maximum Achievable Control Technology - Source Categories   |
|-------------------------------|---------|--|
| 08/22/2001                    | VVVV    | Boat Manufacturing   |
| 04/21/2003                    | WWWW    | Reinforced Plastic Composites Production   |
| 07/09/2002                    | XXXX    | Rubber Tire Manufacturing  |
| 03/5/2004                     | YYYY    | Combustion Turbines  |
| 06/15/2004                    | ZZZZ    | Reciprocating Internal Combustion Engines (RICE)   |
| 01/05/2004                    | AAAAA   | Lime Manufacturing   |
| 05/22/2003                    | BBBBB   | Semiconductor Manufacturing  |
| 01/30/2001                    | CCCCC   | Coke Ovens: Pushing, Quenching and Battery Stacks  |
|                               | DDDDD   | Industrial, Commercial and Institutional Boilers and Process Heaters ( <b>Proposed 01/13/2003, vacated 2007, new proposal 2010</b> ) |
| 04/22/2004                    | EEEEE   | Iron Foundries   |
| 05/20/2003                    | FFFFF   | Integrated Iron and Steel Manufacturing  |
| 10/08/2003                    | GGGGG   | Site Remediation   |
| 12/11/2003                    | HHHHH   | Miscellaneous Coating Manufacturing  |
| 12/19/2003                    | IIIII   | Mercury Emissions from Mercury Cell Chlor-Alkali Plants  |
| 05/16/2003                    | JJJJJ   | Brick and Structural Clay Products Manufacturing   |
| 05/16/2003                    | KKKKK   | Clay Ceramics Manufacturing  |
| 04/29/2003                    | LLLLL   | Asphalt Roofing and Processing   |
| 04/14/2003                    | MMMMM   | Flexible Polyurethane Foam Fabrication Operations  |
| 04/17/2003                    | NNNNN   | Hydrochloric Acid Production   |
| 05/27/2003                    | PPPPP   | Engine Test Cells/Standards  |
| 10/18/2002                    | QQQQQ   | Friction Parts Manufacturing   |
| 10/30/2003                    | RRRRR   | Taconite Iron Ore Processing   |
| 04/16/2003                    | SSSSS   | Refractory Products Manufacturing  |
| 10/10/2003                    | TTTTT   | Primary Magnesium Refining   |
| 12/28/2007                    | WWWWW   | Hospital Ethylene Oxide Sterilizers  |
| 12/28/2007                    | YYYYY   | Electric Arc Furnace Steelmaking Facilities  |
| 01/02/2008                    | ZZZZZ   | Iron and Steel Foundries Area Sources  |
| 01/10/2008                    | BBBBBB  | Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities   |
| 01/10/2008                    | CCCCC   | Gasoline Dispensing Facilities   |
| 01/23/2007                    | DDDDDD  | Polyvinyl Chloride and Copolymers Production Area Sources  |
| 01/23/2007                    | EEEEEE  | Primary Copper Smelting Area Sources   |
| 01/23/2007                    | FFFFFF  | Secondary Copper Smelting Area Sources   |
| 01/23/2007                    | GGGGGG  | Primary Nonferrous Metals Area Sources-Zinc, Cadmium, and Beryllium  |
| 01/09/2008                    | HHHHHH  | Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources   |
| 07/16/2007                    | LLLLLL  | Acrylic and Modacrylic Fibers Production Area Sources  |
| 07/16/2007                    | MMMMMM  | Carbon Black Production Area Sources   |
| 07/16/2007                    | NNNNNN  | Chemical Manufacturing Area Sources: Chromium Compounds  |
| 07/16/2007                    | OOOOOO  | Flexible Polyurethane Foam Production and Fabrication Area Sources   |
| 07/16/2007                    | PPPPPP  | Lead Acid Battery Manufacturing Area Sources   |
| 07/16/2007                    | QQQQQQ  | Wood Preserving Area Sources   |
| 12/26/2007                    | RRRRRR  | Clay Ceramics Manufacturing Area Sources   |
| 12/26/2007                    | SSSSSS  | Glass Manufacturing Area Sources   |
| 12/26/2007                    | TTTTTT  | Secondary Nonferrous Metals Processing Area Sources  |
| 10/29/2009                    | VVVVVV  | Chemical Manufacturing Area Sources  |
| 07/01/2008                    | WWWWWW  | Area Source Standards for Plating and Polishing Operations   |
| 07/23/2008                    | XXXXXX  | Nine Metal Fabrication and Finishing Source Categories   |
| 12/23/2008                    | YYYYYY  | Ferroalloys Production Facilities  |
| 06/25/2009                    | ZZZZZZ  | Aluminum, Copper, and Other Nonferrous Foundries   |
| 12/02/2009                    | AAAAAAA | Asphalt Processing and Asphalt Roofing Manufacturing   |
| 12/30/2009                    | BBBBBBB | Chemical Preparations Industry   |
| 12/03/2009                    | CCCCCCC | Paints and Allied Products Manufacturing   |
| 01/05/2010                    | DDDDDDD | Prepared Feeds Manufacturing   |



## Appendix D (Continued)

### Entire State of Missouri – Emission Standards for Hazardous Air Pollutants – 10 CSR 10-6.080 and 40 CFR Part 61

– Please use this potential applicable requirements summary as a reference point **if subject to 10 CSR 10-6.080 for Chapter 6 Regulations**. If not subject to 10 CSR 10-6.075, please skip to the next category of requirements.

| Promulgation (Effective) Date | Subpart | 40 CFR Part 61 – National Emission Standards for Hazardous Air Pollutants – Source Categories                                   |
|-------------------------------|---------|---|
| Various 1971-1986             | A       | General Provisions  |
| 12/15/1989                    | B       | Radon Emissions from Underground Uranium Mines  |
| 04/06/1973                    | C       | Beryllium   |
| 04/06/1973                    | D       | Beryllium Rocket Motor Firing   |
| 10/14/1975                    | E       | Mercury   |
| 10/21/1976                    | F       | Vinyl Chloride  |
|                               | G       | [Reserved]  |
| 12/15/1989                    | H       | Emissions of Radionuclides Other Than Radon From Department of Energy Facilities  |
| 12/15/1989                    | I       | Radionuclides Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H |
| 06/06/1984                    | J       | Equipment Leaks (Fugitive Emission Sources) of Benzene  |
| 12/15/1989                    | K       | Radionuclide Emission from Elemental Phosphorous Plants   |
| 09/14/1989                    | L       | Benzene Emissions from Coke By-Products Recovery Plants   |
| 04/05/1984                    | M       | Asbestos  |
| 08/04/1986                    | N       | Inorganic Arsenic Emissions from Glass Manufacturing Plants   |
| 08/04/1986                    | O       | Inorganic Arsenic Emissions from Primary Copper Smelters  |
| 08/04/1986                    | P       | Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities                                    |
| 12/15/1989                    | Q       | Radon Emissions from Department of Energy Facilities  |
| 06/03/1992                    | R       | Radon Emissions from Phosphogypsum  |
|                               | S       | [Reserved]  |
| 12/15/1989                    | T       | Radon Emissions from the Disposal of Uranium Mill Tailings  |
|                               | U       | [Reserved]  |
| 06/06/1984                    | V       | Equipment Leaks (Fugitive Emission Sources)   |
| 12/15/1989                    | W       | Radon Emissions from Operating Mill Tailings  |
|                               | X       | [Reserved]  |
| 09/14/1989                    | Y       | Benzene Emissions from Benzene Storage Vessels  |
|                               | Z       | [Reserved]  |
|                               | AA      | [Reserved]  |
| 03/07/1990                    | BB      | Benzene Emissions from Benzene Transfer Operations  |
|                               | CC      | [Reserved]  |
|                               | DD      | [Reserved]  |
|                               | EE      | [Reserved]  |
| 03/07/1990                    | FF      | Benzene Waste Operations  |

## Appendix D (Continued)

### St. Louis Metropolitan Area – Code of State Regulations -Chapter 5

– Please use this potential applicable requirements summary as a reference point if located within the City of St. Louis or Franklin, Jefferson, St. Charles or St. Louis counties.

| Effective Date | Title           | Organization   |
|----------------|-----------------|--|
| 03/24/1967     | 10 CSR 10-5.030 | Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating <sup>1</sup>  |
| 03/24/1967     | 10 CSR 10-5.040 | Use of Fuel in Hand-Fired Equipment Prohibited <sup>1</sup>  |
| 03/24/1967     | 10 CSR 10-5.080 | Incinerators <sup>3</sup> (Rescinded December 9, 1991)   |
| 03/24/1967     | 10 CSR 10-5.120 | Information on Sales of Fuels (Coal and Residual Fuel Oil) to be Provided and Maintained <sup>1</sup>  |
| 03/24/1967     | 10 CSR 10-5.160 | Control of Odors in the Ambient Air <sup>2</sup>   |
| 03/24/1967     | 10 CSR 10-5.170 | Control of Odors From Processing of Animal Matter <sup>2</sup>   |
| 03/24/1967     | 10 CSR 10-5.220 | Control of Petroleum Liquid Storage, Loading and Transfer <sup>1</sup>   |
| 03/24/1967     | 10 CSR 10-5.240 | Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area <sup>1</sup>   |
| 12/11/1978     | 10 CSR 10-5.290 | More Restrictive Emission Limitations for Particulate Matter in the South St. Louis Area <sup>1</sup>  |
| 02/29/2000     | 10 CSR 10-5.295 | Control of Emissions From Aerospace Manufacture and Rework Facilities <sup>1</sup>   |
| 06/11/1979     | 10 CSR 10-5.300 | Control of Emissions From Solvent Metal Cleaning <sup>1</sup>  |
| 07/12/1979     | 10 CSR 10-5.310 | Liquefied Cutback Asphalt Paving Restricted <sup>1</sup>   |
| 07/12/1979     | 10 CSR 10-5.330 | Control of Emissions From Industrial Surface Coating Operations <sup>1</sup>   |
| 09/12/1980     | 10 CSR 10-5.340 | Control of Emissions From Rotogravure and Flexographic Printing Facilities <sup>1</sup>  |
| 09/12/1980     | 10 CSR 10-5.350 | Control of Emissions From Manufacture of Synthesized Pharmaceutical Products <sup>1</sup>  |
| 11/11/1982     | 10 CSR 10-5.360 | Control of Emissions From Polyethylene Bag Sealing Operations <sup>1</sup>   |
| 01/13/1984     | 10 CSR 10-5.370 | Control of Emissions From the Application of Deadeners and Adhesives <sup>1</sup>  |
| 03/11/1984     | 10 CSR 10-5.390 | Control of Emissions From Manufacture of Paints, Varnishes, Lacquers, Enamels and Other Allied Surface Coating Products <sup>1</sup>   |
| 05/11/1985     | 10 CSR 10-5.410 | Control of Emissions From Manufacture of Polystyrene Resin <sup>1</sup>  |
| 09/26/1986     | 10 CSR 10-5.420 | Control of Equipment Leaks From Synthetic Organic Chemical and Polymer Manufacturing Plants <sup>1</sup>   |
| 12/24/1987     | 10 CSR 10-5.430 | Control of Emissions From the Surface Coating of Chrome-Plated and Resist Plastic Parts <sup>2</sup>   |
| 05/28/1995     | 10 CSR 10-5.440 | Control of Emissions From Bakery Ovens <sup>1</sup>  |
| 05/28/1995     | 10 CSR 10-5.442 | Control of Emissions From Lithographic Printing Operations <sup>1</sup>  |
| 05/28/1995     | 10 CSR 10-5.450 | Control of VOC Emissions From Traffic Coatings <sup>1</sup>  |
| 03/25/1995     | 10 CSR 10-5.451 | Control of Emissions From Aluminum Foil Rolling <sup>1</sup>   |
| 05/28/1995     | 10 CSR 10-5.455 | Control of Emissions From Solvent Cleanup Operations <sup>1</sup>  |
| 12/30/1996     | 10 CSR 10-5.490 | Municipal Solid Waste Landfills <sup>1</sup>   |
| 02/29/2000     | 10 CSR 10-5.500 | Control of Emissions From Volatile Organic Liquid Storage <sup>1</sup>   |
| 02/29/2000     | 10 CSR 10-5.510 | Control of Emissions of Nitrogen Oxides <sup>1</sup>   |
| 02/29/2000     | 10 CSR 10-5.520 | Control of Volatile Organic Compound Emissions From Existing Major Sources <sup>1</sup>  |
| 02/29/2000     | 10 CSR 10-5.530 | Control of Volatile Organic Compound Emissions From Wood Furniture Manufacturing Operations <sup>1</sup>   |
| 02/29/2000     | 10 CSR 10-5.540 | Control of Emissions From Batch Process Operations <sup>1</sup>  |
| 02/29/2000     | 10 CSR 10-5.550 | Control of Volatile Organic Compound Emissions From Reactor Processes and Distillation Operations Processes in the Synthetic Organic Chemical Manufacturing Process <sup>1</sup> |

## Appendix D (Continued)

### City of St. Louis Local Ordinances

Please use this potential applicable requirements summary as a reference point if located within the City of St. Louis.

| Section | Old Ordinance 65645   | New Ordinance 68657  |
|---------|---|--|
| 1       | Adoption 4  | Adoption 4   |
| 2       | Name 4  | Name 4   |
| 3       | Policy Statement 4  | Policy Statement 4   |
| 4       | Statement of Delegated Authority 4                                      | Statement of Delegated Authority 4   |
| 5       | Continuation of Existing Actions <sup>4</sup>                           | Continuation of Existing Actions <sup>4</sup>  |
| 6       | Definitions 1   | Definitions 4  |
| 7       | Commissioner Powers and Duties 4  | Powers and Duties 4  |
| 8       | Board of Appeals and Variance Review 4                                  | Administrative Hearings 4  |
| 9       | Variances 4   | Variances 4  |
| 10      | Commissioner to Approve Construction, Alteration and Demolition Plans 4 | Commissioner to Approve Construction and Alteration plans as well as Occupancy and Demolition Applications 4     |
| 11      | Community Alert 4   | Source-Specific Emergency Procedures 4   |
| 12      | Source-Specific Emergency Procedures 4                                  | Asbestos <sup>4</sup>  |
| 13      | Air Pollution Nuisance Prohibited 4                                     | Air Pollution Nuisance Prohibited 4  |
| 14      | Restrictions of Emission of Visible Air Contaminants 4                  | Motor Vehicle Idling Prohibited  |
| 15      | Open Burning Restrictions 1   | Restrictions of Emission of Visible Air Contaminants 4   |
| 16      | Incinerators <sup>4</sup>   | Open Burning Restrictions 4  |
| 17      | Prevention of Airborne Particulate Matter 4                             | Incinerators <sup>4</sup>  |
| 18      | Abrasive Blasting 4   | Preventing Particulate Matter from Becoming Airborne at any Premises or Any Industrial and Commercial Facility 4 |
| 19      | Source Registration Permits Required 4                                  | Abrasive Blasting 4  |
| 20      | Inspection, Disclosure, and Submittal of Requested Information 4        | Source Registration Permits Required 4   |
| 21      | Cooperation of Local Government Agencies Required 4                     | Right of Inspection, Disclosure, and Submittal of Requested Information 4  |
| 22      | Enforcement 4   | Cooperation of Local Government Agencies Required 4  |
| 23      | Upset Conditions, Breakdowns, or Scheduled Maintenance 4                | Enforcement 4  |
| 24      | Performance Based Fee Schedule 4  | Upset Conditions, Breakdowns, or Scheduled Maintenance 4   |
| 25      | Severability 4  | Performance Based Fee Schedule 4   |
| 26      | Penalty Clause 4  | Severability 4   |
| 27      | Emergency Clause 4  | Penalty Clause 4   |
| 28      |   | Emergency Clause 4   |

### State Enforceability versus Federal Enforceability

The level of government (i.e., state, federal, or local) at which an air quality rule is enforced may vary. Below is a list of footnotes that classify which agency or agencies will enforce a particular regulation.

1. Federal, State and Local Agency Enforceable Regulation
2. State and Local Agency Enforceable Regulation
3. Only Federally Enforced Regulation
4. Only Local Agency Enforced Regulation

## Appendix E, Hazardous Air Pollutants List

Note: This list was last updated June 14, 2010. Check to see if there are new revisions at the web site:  
<http://www.epa.gov/ttn/atw/188polls.html>

| <b>CAS #</b> | <b>Pollutant</b>  |
|--------------|---|
| 75-07-0      | Acetaldehyde  |
| 60-35-5      | Acetamide   |
| 75-05-8      | Acetonitrile  |
| 98-86-2      | Acetophenone  |
| 53-96-3      | 2-Acetylaminofluorene   |
| 107-02-8     | Acrolein  |
| 79-06-1      | Acrylamide  |
| 79-10-7      | Acrylic acid  |
| 107-13-1     | Acrylonitrile   |
| 107-05-1     | Allyl chloride  |
| 92-67-1      | 4-Aminobiphenyl   |
| 62-53-3      | Aniline   |
| 90-04-0      | o-Anisidine   |
| 1332-21-4    | Asbestos  |
| 71-43-2      | Benzene (including benzene from gasoline)                           |
| 92-87-5      | Benzidine   |
| 98-07-7      | Benzotrichloride  |
| 100-44-7     | Benzyl chloride   |
| 92-52-4      | Biphenyl  |
| 117-81-7     | Bis(2-ethylhexyl)phthalate (DEHP)                                   |
| 542-88-1     | Bis(chloromethyl) ether   |
| 75-25-2      | Bromoform   |
| 106-99-0     | 1,3-Butadiene   |
| 156-62-7     | Calcium cyanamide   |
| 105-60-2     | Caprolactam (Removed 6/18/96, 61FR30816)                            |
| 133-06-2     | Captan  |
| 63-25-2      | Carbaryl  |
| 75-15-0      | Carbon disulfide  |
| 56-23-5      | Carbon tetrachloride  |
| 463-58-1     | Carbonyl sulfide  |
| 120-80-9     | Catechol  |
| 133-90-4     | Chloramben  |
| 57-74-9      | Chlordane   |
| 7782-50-5    | Chlorine  |
| 79-11-8      | Chloroacetic acid   |
| 532-27-4     | 2-Chloroacetophenone  |
| 108-90-7     | Chlorobenzene   |
| 510-15-6     | Chlorobenzilate   |
| 67-66-3      | Chloroform  |
| 107-30-2     | Chloromethyl methyl ether   |
| 126-99-8     | Chloroprene   |
| 1319-77-3    | Cresol/Cresylic acid (mixed isomers)                                |
| 95-48-7      | o-Cresol  |
| 108-39-4     | m-Cresol  |
| 106-44-5     | p-Cresol  |
| 98-82-8      | Cumene  |
| N/A          | 2,4-D (2,4-Dichlorophenoxyacetic Acid) (including salts and esters) |
| 72-55-9      | DDE (1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene)                 |
| 334-88-3     | Diazomethane  |
| 132-64-9     | Dibenzofuran  |
| 96-12-8      | 1,2-Dibromo-3-chloropropane   |

**Appendix E (Continued)****Hazardous Air Pollutants List**

| <b>CAS #</b> | <b>Pollutant</b>  |
|--------------|---|
| 84-74-2      | Dibutyl phthalate   |
| 106-46-7     | 1,4-Dichlorobenzene   |
| 91-94-1      | 3,3'-Dichlorobenzidine  |
| 111-44-4     | Dichloroethyl ether (Bis[2-chloroethyl]ether)                             |
| 542-75-6     | 1,3-Dichloropropene   |
| 62-73-7      | Dichlorvos  |
| 111-42-2     | Diethanolamine  |
| 64-67-5      | Diethyl sulfate   |
| 119-90-4     | 3,3'-Dimethoxybenzidine   |
| 60-11-7      | 4-Dimethylaminoazobenzene   |
| 121-69-7     | N,N-Dimethylaniline   |
| 119-93-7     | 3,3'-Dimethylbenzidine  |
| 79-44-7      | Dimethylcarbamoyl chloride  |
| 68-12-2      | N,N-Dimethylformamide   |
| 57-14-7      | 1,1-Dimethylhydrazine   |
| 131-11-3     | Dimethyl phthalate  |
| 77-78-1      | Dimethyl sulfate  |
| N/A          | 4,6-Dinitro-o-cresol (including salts)                                    |
| 51-28-5      | 2,4-Dinitrophenol   |
| 121-14-2     | 2,4-Dinitrotoluene  |
| 123-91-1     | 1,4-Dioxane (1,4-Diethyleneoxide)   |
| 122-66-7     | 1,2-Diphenylhydrazine   |
| 106-89-8     | Epichlorohydrin (1-Chloro-2,3-epoxypropane)                               |
| 106-88-7     | 1,2-Epoxybutane   |
| 140-88-5     | Ethyl acrylate  |
| 100-41-4     | Ethylbenzene  |
| 51-79-6      | Ethyl carbamate (Urethane)  |
| 75-00-3      | Ethyl chloride (Chloroethane)   |
| 106-93-4     | Ethylene dibromide (Dibromoethane)  |
| 107-06-2     | Ethylene dichloride (1,2-Dichloroethane)                                  |
| 107-21-1     | Ethylene glycol   |
| 151-56-4     | Ethyleneimine (Aziridine)   |
| 75-21-8      | Ethylene oxide  |
| 96-45-7      | Ethylene thiourea   |
| 75-34-3      | Ethylidene dichloride (1,1-Dichloroethane)                                |
| 50-00-0      | Formaldehyde  |
| 76-44-8      | Heptachlor  |
| 118-74-1     | Hexachlorobenzene   |
| 87-68-3      | Hexachlorobutadiene   |
| N/A          | 1,2,3,4,5,6-Hexachlorocyclohexane (all stereo isomers, including lindane) |
| 77-47-4      | Hexachlorocyclopentadiene   |
| 67-72-1      | Hexachloroethane  |
| 822-06-0     | Hexamethylene diisocyanate  |
| 680-31-9     | Hexamethylphosphoramide   |
| 110-54-3     | Hexane  |
| 302-01-2     | Hydrazine   |
| 7647-01-0    | Hydrochloric acid (Hydrogen Chloride)                                     |
| 7664-39-3    | Hydrogen fluoride (Hydrofluoric acid)                                     |
| 123-31-9     | Hydroquinone  |
| 78-59-1      | Isophorone  |
| 108-31-6     | Maleic anhydride  |
| 67-56-1      | Methanol  |
| 72-43-5      | Methoxychlor  |
| 74-83-9      | Methyl bromide (Bromomethane)   |
| 74-87-3      | Methyl chloride (Chloromethane)   |

**Appendix E (Continued)****Hazardous Air Pollutants List**

| <b>CAS #</b> | <b>Pollutant</b>   |
|--------------|--|
| 71-55-6      | Methyl chloroform (1,1,1-Trichloroethane)                        |
| 78-93-3      | Methyl ethyl ketone (2-Butanone) (Removed 12/19/05, 70 FR 75047) |
| 60-34-4      | Methylhydrazine  |
| 74-88-4      | Methyl iodide (Iodomethane)                                      |
| 108-10-1     | Methyl isobutyl ketone (Hexone)                                  |
| 624-83-9     | Methyl isocyanate  |
| 80-62-6      | Methyl methacrylate  |
| 1634-04-4    | Methyl tert-butyl ether  |
| 101-14-4     | 4,4'-Methylenebis(2-chloroaniline)                               |
| 75-09-2      | Methylene chloride (Dichloromethane)                             |
| 101-68-8     | 4,4'-Methylenediphenyl diisocyanate (MDI)                        |
| 101-77-9     | 4,4'-Methylenedianiline  |
| 91-20-3      | Naphthalene  |
| 98-95-3      | Nitrobenzene   |
| 92-93-3      | 4-Nitrobiphenyl  |
| 100-02-7     | 4-Nitrophenol  |
| 79-46-9      | 2-Nitropropane   |
| 684-93-5     | N-Nitroso-N-methylurea   |
| 62-75-9      | N-Nitrosodimethylamine   |
| 59-89-2      | N-Nitrosomorpholine  |
| 56-38-2      | Parathion  |
| 82-68-8      | Pentachloronitrobenzene (Quintobenzene)                          |
| 87-86-5      | Pentachlorophenol  |
| 108-95-2     | Phenol   |
| 106-50-3     | p-Phenylenediamine   |
| 75-44-5      | Phosgene   |
| 7803-51-2    | Phosphine  |
| 7723-14-0    | Phosphorus   |
| 85-44-9      | Phthalic anhydride   |
| 1336-36-3    | Polychlorinated biphenyls (Aroclors)                             |
| 1120-71-4    | 1,3-Propane sultone  |
| 57-57-8      | beta-Propiolactone   |
| 123-38-6     | Propionaldehyde  |
| 114-26-1     | Propoxur (Baygon)  |
| 78-87-5      | Propylene dichloride (1,2-Dichloropropane)                       |
| 75-56-9      | Propylene oxide  |
| 75-55-8      | 1,2-Propylenimine (2-Methylaziridine)                            |
| 91-22-5      | Quinoline  |
| 106-51-4     | Quinone (p-Benzoquinone)   |
| 100-42-5     | Styrene  |
| 96-09-3      | Styrene oxide  |
| 1746-01-6    | 2,3,7,8-Tetrachlorodibenzo-p-dioxin                              |
| 79-34-5      | 1,1,2,2-Tetrachloroethane  |
| 127-18-4     | Tetrachloroethylene (Perchloroethylene)                          |
| 7550-45-0    | Titanium tetrachloride   |
| 108-88-3     | Toluene  |
| 95-80-7      | Toluene-2,4-diamine  |
| 584-84-9     | 2,4-Toluene diisocyanate   |
| 95-53-4      | o-Toluidine  |
| 8001-35-2    | Toxaphene (chlorinated camphene)                                 |
| 120-82-1     | 1,2,4-Trichlorobenzene   |
| 79-00-5      | 1,1,2-Trichloroethane  |
| 79-01-6      | Trichloroethylene  |
| 95-95-4      | 2,4,5-Trichlorophenol  |
| 88-06-2      | 2,4,6-Trichlorophenol  |

## Hazardous Air Pollutants List

| <b>CAS #</b> | <b>Pollutant</b>                               |
|--------------|--|
| 121-44-8     | Triethylamine                                  |
| 1582-09-8    | Trifluralin                                    |
| 540-84-1     | 2,2,4-Trimethylpentane                         |
| 108-05-4     | Vinyl acetate                                  |
| 593-60-2     | Vinyl bromide                                  |
| 75-01-4      | Vinyl chloride                                 |
| 75-35-4      | Vinylidene chloride (1,1-Dichloroethylene)     |
| 1330-20-7    | Xylenes (mixed isomers)                        |
| 95-47-6      | o-Xylene                                       |
| 108-38-3     | m-Xylene                                       |
| 106-42-3     | p-Xylene                                       |
| N/A          | Antimony Compounds                             |
| N/A          | Arsenic Compounds (inorganic including arsine) |
| N/A          | Beryllium Compounds                            |
| N/A          | Cadmium Compounds                              |
| N/A          | Chromium Compounds                             |
| N/A          | Cobalt Compounds                               |
| N/A          | Coke Oven Emissions                            |
| N/A          | Cyanide Compounds.....1                        |
| N/A          | Glycol ethers.....2                            |
| N/A          | Lead Compounds                                 |
| N/A          | Manganese Compounds                            |
| N/A          | Mercury Compounds                              |
| N/A          | Fine mineral fibers.....3                      |
| N/A          | Nickel Compounds                               |
| N/A          | Polycyclic Organic Matter.....4                |
| N/A          | Radionuclides (including radon).....5          |
| N/A          | Selenium Compounds                             |

NOTE: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

1) X'CN where X = H' or any other group where a formal dissociation may occur. For example, KCN or Ca(CN)<sub>2</sub>.

2) On January 12, 1999 (64FR1780), the EPA proposed to modify the definition of glycol ethers to exclude surfactant alcohol ethoxylates and their derivatives (SAED). On August 2, 2000 (65FR47342), the EPA published the final action. This action deletes each individual compound in a group called the surfactant alcohol ethoxylates and their derivatives (SAED) from the glycol ethers category in the list of hazardous air pollutants (HAP) established by section 112(b)(1) of the Clean Air Act (CAA). EPA also made conforming changes in the definition of glycol ethers with respect to the designation of hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). On November 29, 2004 (69FR692988) the EPA published the final action delisting ethylene glycol mono butyl ether,

"The following definition of the glycol ethers category of hazardous air pollutants applies instead of the definition set forth in 42 U.S.C. 7412(b)(1), footnote 2: Glycol ethers include di-ethers of ethylene glycol, and mono- and di-ethers of diethylene glycol, and triethylene glycol R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR'

Where:

n= 1, 2, or 3

R= alkyl C7 or less, or phenyl or alkyl substituted phenyl

R'= H, or alkyl C7 or less, or carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

3) (Under Review)

4) (Under Review)

5) A type of atom which spontaneously undergoes radioactive decay.

## Glossary

### Allowable Emission Rate

The emission rate calculated using the maximum rated capacity of the installation (unless the source is subject to enforceable permit conditions which limit the operating rate or hours of operation, or both) and the most stringent of the following:

1. emission limit established in any applicable emission control rule including those with a future compliance date,
2. the emission rate specified as a permit condition.

For example: An installation has an emission unit which has process inputs of 40 tons per hour along with potential PM<sub>10</sub> emissions of 50 pounds per hour. State Regulation 10 CSR 10-6.400, "Restriction of Emission of Particulate Matter From Industrial Processes", restricts the level of potential emission rate from a process with inputs of 40 tons per hour to a maximum of 42.5 pounds per hour. The 42.5 pound per hour value is said to be the allowable emission rate for this emission unit.

The installation, at a minimum, would have to restrict the potential emissions from the emission unit to a potential emission rate of 42.5 pounds per hour. The limitation on the potential emissions would have result from applying for some form of a "Federally Enforceable Condition" on the Emission Unit.

### Basic State Installation:

An installation that has the potential to emit greater than *de minimis* levels of any criteria pollutant or is subject to any limitation, standard, or other requirement (regardless of emission rate) under section 111 or 112 (with the exception of 112(r)) of the Clean Air Act but does not meet the criteria for **Part 70 installations**.

### CAS #:

Chemical Abstract Service Registry Number.

### CFR:

Code of Federal Regulations.

### Control Device:

Equipment or process used to remove or prevent air contaminants from being emitted from an air pollution generating process.

### CSR:

Code of State Regulations.

### Emission Factor:

An average value that relates the quantity of a pollutant released to the atmosphere with the amount of activity associated with the process releasing that pollutant. Such factors can be used to estimate the emissions from various sources generating air pollution. An emission factor for natural gas combustion is 3.0 lbs of PM<sub>10</sub> per Million Cubic Feet (MMCF) of gas burned. An emission factor for a haul road can be 2.7 lbs. of PM<sub>10</sub> per Vehicle Miles Traveled (VMT).

### Emission Point:

Any specific point or area where an air pollutant is released from a process or operation into the ambient air.

Example: Suppose the first emission point at a facility is a 30 foot stack which emits pollutants from a boiler, the stack rather than the boiler could be labeled EP1. The boiler would be the process producing air pollutants, so an appropriate Source Classification Code (SCC) would be chosen to reflect that the boiler is one process under this emission point.



**Emission Unit:**

Any part or activity of an installation that emits or has the potential to emit any regulated air pollutant or any pollutant listed under section 112(b) of the Act (10 CSR 10-6.020). For the purposes of the operating permit application, an emission unit is a sub-point of an emission point from the Emissions Inventory Questionnaire.

For example, an EIQ for Facility B lists Emission Point 1 as a stack which emits pollutants from two boilers and a kiln. The three emission units are boiler 1, boiler 2, and the kiln.

**FIPS #:**

This is the first three digits of an identification number assigned to each installation in the Air Pollution Control Program (APCP) database. Each county within the state has been assigned a unique number by the federal government. Every installation in the City of St. Louis, for example, will be assigned a FIPS number of 510.

**Installation:**

All emission point/unit operations that belong to the same industrial grouping (the same first two-digits of the SIC code) that are located on one or more contiguous or adjacent properties and are under the control of the same person (or persons under common control). This definition includes any activities that result in fugitive emissions and any marine vessels emissions while docked at the installation. (As defined in 10 CSR 10 6.020)

**MHDR (Maximum Hourly Design Rate):**

Maximum Hourly Design Rate is the maximum throughput that could be processed in one hour of continuous operation by the equipment at this emission point. The throughput and MHDR must be expressed in the same SCC (Source Classification Code) units. If specific equipment information on the MHDR is not available, contact the Air Pollution Control Program for alternative methods to estimate the MHDR.

**Plant #:**

This is the last four digits of a seven digit identification numbers assigned to all installations in the APCP database. Each installation within a county has been assigned this unique identification number by the Air Pollution Control Program (APCP).

**SIC (Standard Industrial Classification):**

This is a designation system by the federal government. The Standard Industrial Classification was developed for use in the classification of establishments by type of activity in which they are engaged; for purposes of facilitating the collection, presentation, and analysis of data relating to establishments; and for promoting uniformity and comparability in the presentation of statistical data collected by various agencies of the United States Government, State agencies, trade associations, and private research organizations. The SIC for *establishments* differ from a classification for *enterprises* (companies) or products. An enterprise consists of all establishments having more than 50% common direct or indirect ownership. The SIC is intended to cover the entire field of economic activities: agriculture, forestry, fishing, hunting, and trapping; mining; construction; manufacturing; transportation, communication, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; personal, business, professional, repair, recreation, and other services; and public administration.